

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684970

Luminaire Tested: **LX6C35D010 EX6359030 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C35D010 EX6359030 6LCSWLI  
Description: 6 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

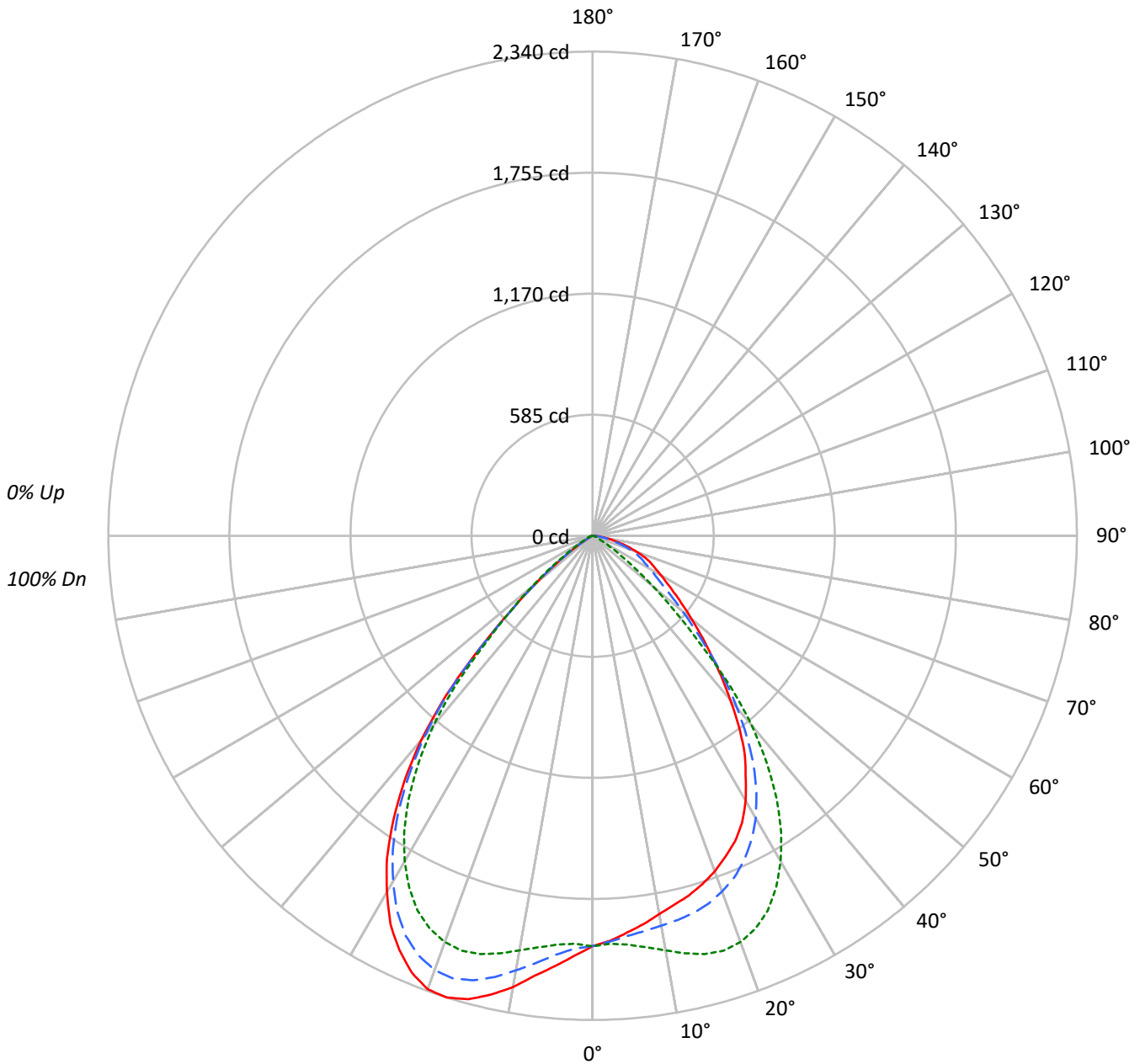
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3625.0 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 40.4  
Input Voltage (V):  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	108719	108719	108719
5°	105899	109135	114869
10°	103321	113241	123272
15°	102112	118792	131596
20°	100651	121886	136045
25°	98510	120987	133604
30°	93616	114973	125773
35°	85648	103664	112290
40°	74082	85610	92123
45°	62472	56153	60262
50°	53039	32502	30566
55°	46029	15579	11775
60°	41576	7269	2905
65°	40329	4177	986
70°	36160	3350	914
75°	29717	2415	402
80°	22130	1200	0
85°	19121	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.6	5.3
10°-20°	583.8	16.1
20°-30°	892.0	24.6
30°-40°	932.9	25.7
40°-50°	605.2	16.7
50°-60°	240.3	6.6
60°-70°	114.0	3.1
70°-80°	54.2	1.5
80°-90°	11.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1667.3	46.0
0°-40°	2600.3	71.7
0°-60°	3445.7	95.1
0°-90°	3625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1983	1983	1983	1983	1983	
5°	1924	1942	1983	2032	2087	182
15°	1799	1886	2093	2224	2319	507
25°	1629	1731	2000	2135	2209	746
35°	1280	1358	1549	1640	1678	791
45°	806	798	724	768	777	627
55°	482	410	163	127	123	436
65°	311	258	32	8	8	304
75°	140	114	11	4	2	151
85°	30	19	0	0	0	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1958.5	1962.3	1941.5	1935.8	1951.0	1956.6	1958.5	1952.8	1954.7	1962.3	1962.3
5°	1924.4	1928.2	1909.2	1903.5	1918.7	1922.5	1928.2	1926.3	1932.0	1943.3	1941.5
7.5°	1892.2	1897.9	1877.0	1869.4	1888.4	1897.9	1901.6	1901.6	1909.2	1924.4	1926.3
10°	1856.1	1863.7	1844.8	1840.9	1861.8	1871.3	1873.2	1877.0	1888.4	1909.2	1913.0
12.5°	1825.8	1833.4	1820.1	1814.4	1837.2	1846.6	1850.4	1858.0	1871.3	1897.9	1901.6
15°	1799.2	1804.9	1789.8	1786.0	1808.7	1820.1	1822.0	1833.4	1850.4	1880.8	1886.5
17.5°	1765.1	1768.9	1757.6	1753.8	1776.5	1787.8	1789.8	1803.0	1823.9	1854.3	1863.7
20°	1725.3	1729.1	1717.7	1713.9	1736.7	1749.9	1751.9	1763.3	1787.8	1820.1	1829.6
22.5°	1677.9	1685.5	1672.3	1668.4	1691.2	1702.5	1708.2	1717.7	1742.4	1774.6	1787.8
25°	1628.6	1628.6	1619.2	1617.2	1638.1	1651.4	1649.5	1662.7	1687.4	1719.6	1731.0
27.5°	1564.2	1562.2	1552.8	1550.9	1573.6	1585.0	1581.2	1594.5	1617.2	1649.5	1660.9
30°	1478.9	1482.6	1469.4	1465.5	1484.6	1503.5	1501.6	1514.8	1537.6	1567.9	1575.6
32.5°	1376.5	1380.2	1378.4	1372.7	1389.7	1399.2	1404.9	1414.4	1433.3	1465.5	1473.2
35°	1279.8	1274.1	1266.5	1266.5	1283.5	1298.7	1293.0	1304.4	1323.4	1355.6	1357.5
37.5°	1160.3	1158.4	1154.6	1150.8	1169.8	1173.6	1175.5	1183.1	1200.2	1226.7	1222.9
40°	1035.2	1037.0	1035.2	1027.6	1039.0	1054.1	1052.2	1056.1	1071.2	1090.1	1084.5
42.5°	917.6	917.6	917.6	910.1	923.3	930.9	934.7	932.8	936.6	953.7	946.0
45°	805.8	807.7	805.8	803.9	805.8	809.6	805.8	803.9	803.9	809.6	798.2
47.5°	709.1	709.1	703.4	697.7	703.4	705.3	699.6	693.9	692.0	690.2	671.2
50°	621.9	620.0	618.1	608.6	614.3	616.2	608.6	604.8	597.2	587.8	565.0
52.5°	546.1	544.1	542.2	532.7	536.6	538.4	530.9	523.3	513.8	506.2	477.8
55°	481.6	479.7	479.7	474.0	470.2	474.0	466.4	460.7	447.4	438.0	409.5
57.5°	426.6	426.6	422.8	417.1	419.0	419.0	411.5	403.8	392.4	381.1	358.4
60°	379.2	379.2	379.2	373.5	373.5	373.5	369.7	362.1	352.7	341.3	318.5
62.5°	341.3	341.3	339.3	333.7	335.6	335.6	331.8	324.2	314.8	307.1	284.4
65°	310.9	310.9	310.9	305.3	305.3	307.1	303.4	295.8	288.2	278.7	257.8
67.5°	273.0	271.1	271.1	267.3	269.2	271.1	267.3	261.7	252.2	246.5	227.5
70°	225.6	227.5	229.4	223.8	225.6	225.6	223.8	218.1	212.4	206.7	189.6
72.5°	183.9	183.9	182.0	180.1	180.1	182.0	178.2	172.5	168.7	165.0	151.6
75°	140.3	138.4	140.3	136.5	136.5	136.5	132.7	130.8	128.9	123.2	113.7
77.5°	102.4	100.5	100.5	96.7	98.6	98.6	96.7	92.9	89.1	87.2	79.6
80°	70.1	70.1	70.1	68.3	68.3	66.3	66.3	64.5	60.6	58.8	55.0
82.5°	47.4	47.4	47.4	45.5	45.5	45.5	43.6	41.7	39.8	37.9	34.1
85°	30.4	30.4	30.4	28.4	28.4	28.4	26.5	26.5	24.7	22.7	19.0
87.5°	17.0	17.0	17.0	15.2	15.2	15.2	15.2	15.2	13.3	11.4	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1975.5	1949.0	1966.1	1966.1	1960.4	1975.5	1985.1	1992.6	1990.7	1973.7	1971.8
5°	1960.4	1937.6	1956.6	1958.5	1952.8	1973.7	1986.9	1996.4	1998.3	1983.2	1985.1
7.5°	1949.0	1930.1	1954.7	1962.3	1960.4	1979.4	1994.6	2009.7	2017.3	2005.9	2007.8
10°	1943.3	1928.2	1954.7	1966.1	1968.0	1988.9	2011.6	2032.5	2042.0	2034.3	2040.0
12.5°	1935.8	1926.3	1956.6	1973.7	1981.2	2002.1	2030.6	2055.2	2070.4	2066.6	2077.9
15°	1928.2	1920.6	1956.6	1981.2	1990.7	2009.7	2042.0	2077.9	2095.0	2093.1	2108.3
17.5°	1909.2	1907.3	1945.3	1971.8	1985.1	2007.8	2038.1	2081.7	2098.8	2102.6	2121.6
20°	1878.9	1878.9	1920.6	1949.0	1964.2	1985.1	2023.0	2064.7	2085.6	2089.3	2110.2
22.5°	1837.2	1840.9	1880.8	1909.2	1932.0	1947.1	1986.9	2030.6	2049.5	2055.2	2077.9
25°	1782.2	1786.0	1823.9	1852.3	1877.0	1894.0	1932.0	1971.8	1994.6	2000.2	2017.3
27.5°	1710.2	1717.7	1753.8	1782.2	1803.0	1814.4	1854.3	1895.9	1913.0	1918.7	1935.8
30°	1626.7	1628.6	1664.6	1689.3	1710.2	1719.6	1753.8	1797.4	1810.6	1816.3	1840.9
32.5°	1524.3	1522.5	1556.6	1579.3	1596.4	1607.8	1643.8	1672.3	1685.5	1695.0	1708.2
35°	1401.1	1399.2	1423.8	1450.4	1463.7	1467.5	1503.5	1533.8	1541.4	1549.0	1566.1
37.5°	1262.7	1262.7	1283.5	1296.9	1312.0	1317.7	1334.8	1368.9	1382.2	1380.2	1393.5
40°	1116.7	1109.2	1124.3	1137.6	1141.4	1143.2	1160.3	1186.8	1196.3	1196.3	1205.8
42.5°	963.2	951.7	953.7	961.2	965.0	951.7	963.2	980.2	974.5	982.1	984.0
45°	800.1	783.0	775.5	758.3	762.2	748.9	741.3	745.1	743.2	724.3	728.1
47.5°	667.4	637.1	623.7	599.2	593.5	578.3	568.8	551.7	536.6	536.6	527.0
50°	555.5	525.2	498.6	470.2	460.7	447.4	426.6	403.8	392.4	381.1	371.6
52.5°	466.4	434.2	401.9	371.6	358.4	341.3	312.8	290.1	269.2	257.8	246.5
55°	394.4	358.4	324.2	292.0	274.9	257.8	229.4	202.9	178.2	163.0	153.6
57.5°	339.3	305.3	269.2	235.1	219.9	201.0	170.7	142.2	119.4	102.4	92.9
60°	299.6	265.4	233.2	197.2	182.0	163.0	130.8	104.3	81.5	66.3	55.0
62.5°	265.4	235.1	201.0	168.7	153.6	134.6	104.3	77.7	56.9	41.7	32.2
65°	240.8	210.4	182.0	149.8	136.5	117.6	89.1	64.5	45.5	32.2	22.7
67.5°	212.4	185.8	157.3	130.8	117.6	102.4	75.8	55.0	37.9	26.5	19.0
70°	178.2	157.3	132.7	108.1	98.6	85.3	62.6	45.5	30.4	20.9	15.2
72.5°	142.2	125.1	106.2	87.2	79.6	66.3	51.2	36.1	22.7	15.2	11.4
75°	108.1	94.8	79.6	66.3	58.8	51.2	37.9	26.5	17.0	11.4	7.6
77.5°	74.0	68.3	56.9	45.5	41.7	36.1	24.7	17.0	11.4	7.6	3.8
80°	51.2	45.5	37.9	30.4	26.5	22.7	15.2	11.4	5.7	3.8	1.9
82.5°	32.2	26.5	22.7	19.0	17.0	13.3	9.5	5.7	3.8	1.9	1.9
85°	17.0	15.2	13.3	9.5	9.5	7.6	5.7	3.8	1.9	0.0	0.0
87.5°	9.5	7.6	5.7	3.8	3.8	1.9	1.9	1.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	1994.6	1994.6	1992.6	2015.4	1988.9	2015.4	2002.1	2015.4	1996.4	1994.6	1996.4
5°	2009.7	2015.4	2017.3	2038.1	2013.5	2045.7	2034.3	2045.7	2032.5	2036.3	2042.0
7.5°	2040.0	2049.5	2047.7	2074.2	2049.5	2085.6	2077.9	2095.0	2081.7	2085.6	2093.1
10°	2074.2	2085.6	2087.4	2114.0	2091.2	2134.8	2125.3	2144.3	2133.0	2138.7	2148.1
12.5°	2114.0	2127.3	2129.2	2159.5	2134.8	2180.3	2174.6	2193.6	2184.1	2189.8	2201.2
15°	2144.3	2163.2	2167.1	2197.4	2170.9	2218.3	2214.5	2239.1	2224.0	2233.4	2242.9
17.5°	2159.5	2176.6	2184.1	2212.6	2189.8	2237.2	2233.4	2254.3	2242.9	2252.4	2263.8
20°	2150.0	2170.9	2176.6	2205.0	2182.3	2229.7	2224.0	2244.8	2233.4	2241.0	2252.4
22.5°	2115.9	2136.7	2144.3	2170.9	2150.0	2193.6	2191.7	2210.7	2195.5	2205.0	2214.5
25°	2055.2	2077.9	2081.7	2106.4	2083.6	2129.2	2125.3	2146.2	2134.8	2140.5	2153.8
27.5°	1968.0	1994.6	2000.2	2021.1	2004.0	2042.0	2042.0	2059.0	2045.7	2045.7	2059.0
30°	1863.7	1890.2	1894.0	1911.1	1895.9	1930.1	1932.0	1949.0	1928.2	1939.6	1941.5
32.5°	1736.7	1753.8	1765.1	1780.3	1757.6	1801.2	1795.5	1808.7	1797.4	1797.4	1806.9
35°	1583.1	1604.0	1609.7	1628.6	1609.7	1643.8	1643.8	1651.4	1640.0	1640.0	1655.2
37.5°	1416.3	1431.5	1433.3	1452.3	1437.1	1465.5	1463.7	1469.4	1458.0	1465.5	1465.5
40°	1221.0	1232.4	1236.1	1245.6	1243.8	1264.6	1262.7	1266.5	1260.8	1262.7	1266.5
42.5°	993.5	1008.6	1016.2	1023.8	1012.5	1040.9	1035.2	1040.9	1039.0	1040.9	1046.6
45°	731.8	743.2	748.9	750.8	747.0	764.1	777.3	766.0	767.8	764.1	771.7
47.5°	529.0	530.9	527.0	538.4	529.0	536.6	540.4	542.2	530.9	529.0	536.6
50°	362.1	371.6	358.4	364.0	362.1	369.7	365.9	367.8	356.4	362.1	358.4
52.5°	240.8	238.9	235.1	237.0	233.2	233.2	233.2	237.0	229.4	225.6	221.8
55°	146.0	142.2	134.6	132.7	132.7	134.6	130.8	127.1	127.1	125.1	125.1
57.5°	85.3	79.6	75.8	74.0	70.1	68.3	66.3	66.3	62.6	62.6	62.6
60°	47.4	41.7	37.9	34.1	34.1	32.2	30.4	28.4	28.4	28.4	26.5
62.5°	24.7	20.9	17.0	15.2	15.2	13.3	11.4	11.4	11.4	11.4	9.5
65°	17.0	13.3	11.4	9.5	9.5	7.6	7.6	7.6	7.6	7.6	7.6
67.5°	13.3	11.4	9.5	7.6	7.6	7.6	5.7	5.7	5.7	5.7	5.7
70°	11.4	7.6	7.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	7.6	7.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	5.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P684970

CATALOG NUMBER: LX6C35D010 EX6359030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2	1983.2
2.5°	2013.5	2011.6	2013.5	2017.3	2009.7	2032.5	2021.1	2032.5
5°	2057.1	2059.0	2060.9	2066.6	2057.1	2085.6	2070.4	2087.4
7.5°	2114.0	2115.9	2117.8	2123.5	2117.8	2146.2	2129.2	2144.3
10°	2172.8	2176.6	2176.6	2186.0	2180.3	2206.9	2195.5	2214.5
12.5°	2227.7	2231.5	2235.4	2241.0	2237.2	2265.6	2256.2	2271.3
15°	2271.3	2278.9	2280.8	2288.4	2284.6	2315.0	2303.6	2318.7
17.5°	2292.2	2299.8	2299.8	2309.3	2305.5	2337.7	2322.5	2339.6
20°	2280.8	2286.5	2288.4	2297.9	2294.1	2326.4	2311.2	2332.0
22.5°	2244.8	2246.7	2248.6	2258.1	2256.2	2284.6	2271.3	2284.6
25°	2178.4	2184.1	2182.3	2189.8	2189.8	2212.6	2197.4	2208.8
27.5°	2083.6	2089.3	2089.3	2098.8	2091.2	2114.0	2098.8	2115.9
30°	1968.0	1973.7	1969.9	1977.5	1969.9	1992.6	1981.2	1986.9
32.5°	1829.6	1829.6	1831.5	1833.4	1829.6	1850.4	1839.1	1850.4
35°	1664.6	1668.4	1670.3	1672.3	1668.4	1683.6	1670.3	1677.9
37.5°	1478.9	1488.3	1486.4	1488.3	1482.6	1501.6	1490.2	1494.0
40°	1279.8	1279.8	1277.8	1281.7	1276.0	1291.2	1283.5	1287.3
42.5°	1048.4	1054.1	1046.6	1056.1	1040.9	1061.7	1054.1	1048.4
45°	786.9	779.2	777.3	779.2	773.5	775.5	781.2	777.3
47.5°	536.6	536.6	532.7	527.0	534.7	536.6	529.0	529.0
50°	360.2	360.2	356.4	354.5	358.4	356.4	352.7	358.4
52.5°	229.4	221.8	221.8	225.6	221.8	218.1	223.8	219.9
55°	125.1	121.4	121.4	125.1	121.4	121.4	119.4	123.2
57.5°	60.6	62.6	60.6	60.6	60.6	60.6	58.8	60.6
60°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
62.5°	11.4	11.4	9.5	9.5	9.5	9.5	9.5	9.5
65°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
67.5°	5.7	5.7	5.7	5.7	5.7	7.6	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	5.7	5.7	7.6	7.6	7.6	7.6	7.6	7.6
75°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)